CLAIMS

1   1. A system for sharing secure sockets layer (SSL) sessions across multiple
2   processes comprising:
3   an application process;
4   a daemon process;
5   an SSL wrapper process;
6   SSL application programming interface (API) calls for communication between
7   the application process and SSL wrapper process, for communication between the SSL
8   wrapper process and the SSL daemon process, and for communication between the SSL
9   daemon process and at least one SSL session.

1   2. The system of claim 1 wherein the SSL wrapper process receives a request for
2   an SSL session from an application program, determines whether the request is for a
3   shared or unshared SSL session, passes requests for a shared SSL session to the SSL
4   daemon process, receives a return code from the SSL daemon process, and passes the
5   return code to the application program.

1   3. The system of claim 2 wherein the requests received by the SSL wrapper
2   process include a first input parameter, the first input parameter indicating whether or not
3   a shared SSL session is requested.

1   4. The system of claim 2 wherein the SSL wrapper process receives a second
2   input parameter and passes the second input parameter to the SSL daemon process, the
3   second input parameter comprising the data the application process requests secured by
4   an SSL session.

1   5. The system of claim 2 wherein the SSL daemon process receives a request for
2   a shared SSL session from the SSL wrapper process, passes requests for a shared SSL
3   session to a shared SSL session, receives a return code from the SSL session, and passes
4   the return code to the SSL wrapper process.

1   6. The system of claim 4 wherein the SSL daemon process receives a second
2   input parameter from the application process and passes the second input parameter to the
3   SSL session.

1   7. A method for sharing secure sockets layer (SSL) sessions across multiple
2   processes, comprising:
3   at least one SSL wrapper process receiving a request for a shared SSL session
4   from an application process;
5   an SSL daemon process receiving at least one request for a shared SSL session
6   from the SSL wrapper process;
7   the SSL daemon process calling at least one SSL session;
8   the SSL daemon process receiving at least one return code from at least one
9   called SSL session;
10   at least one SSL wrapper process receiving at least one return code from the SSL
11   daemon; and
12   at least one SSL wrapper process passing a return code to the application process.

1   8. The method in claim 7 wherein a request for an SSL session includes a first
2   input parameter, the first input parameter indicating whether or not a shared SSL session
3   is requested.

1   9. The method of claim 7 wherein the SSL wrapper process communicates with

2   the application process using SSL application programming interface (API) calls, the SSL

3   wrapper process communicates with the SSL daemon process using SSL application

4   programming interface (API) calls, and the SSL daemon process communicates with SSL

5   sessions using SSL application programming interface (API) calls.

1   10. An article of manufacture comprising:

2   a computer useable medium having computer readable program code embodied

3   therein for sharing secure sockets layer (SSL) sessions across multiple processes, the

4   computer readable program in said article of manufacture comprising:

5   computer readable program code for causing a computer to receive a request for

6   an SSL session, to determine whether the request is for a shared or unshared SSL session,

7   to pass a request for a shared SSL session to an SSL daemon process, and to receive a

8   return code from the SSL daemon process;

9   computer readable program code for causing a computer to receive at least one

10 request for a shared SSL session, to call an SSL session, to receive a return code from the

11 SSL session, and to pass a return code to an SSL wrapper process.

1   11. The article of manufacture of claim 10 further comprising computer readable

2   program code for causing a computer to receive a request for an SSL session, wherein the

3   request includes a first input parameter indicating whether or not a shared SSL session is

4   requested.

1   12. The article of manufacture of claim 10 further comprising computer readable

2   program code for causing a computer to receive a request for an SSL session, wherein the

3   request includes a second input parameter, the second input parameter being the data an

4   application process requests to be secured by an SSL session.